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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,773	02/22/2002	Stephen M. Birken	65641-0017	1161
7590 02/20/2004			EXAMINER	
Joseph V. Coppola			BOS, STEVEN J	
Rader, Fishman	& Grauer PLLC			
Suite 140		ART UNIT	PAPER NUMBER	
39533 Woodward Avenue			1754	
Bloomfield Hill	ls, MI 48304			

DATE MAILED: 02/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

~ j,	Application No.	Applicant(s)				
	10/080,773	BIRKEN, STEPHEN M.				
Office Action Summary	Examiner	Art Unit				
	Steven Bos	1754				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply v. - If NO period for reply is specified above, the maximum statutory period wil. - Failure to reply within the set or extended period for reply will, by statute, or any reply received by the Office later than three months after the mailing of earned patent term adjustment. See 37 CFR 1.704(b).	(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day I apply and will expire SIX (6) MONTHS from wause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 16-23 is/are withdrawn 5) Claim(s) 9-15 is/are allowed. 6) Claim(s) 1,3,4 and 7 is/are rejected. 7) Claim(s) 2,5,6 and 8 is/are objected to. 8) Claim(s) 1-23 are subject to restriction and/or el 						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>22 February 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2-22-02 & 7-28-03.	Paper No(s)/Mail Da					

PTOL-326 (Rev. 1-04)

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-15, drawn to a process of separation, classified in class 209, subclass 3.

II. Claims 16-23, drawn to an apparatus, classified in class 422, subclass 1+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used for a different process such as an ore chlorination or a metal leaching process.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Joseph V. Coppola on February 4, 2004 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 16-23 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,3,4,7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelland '478 or Ergun '310.

Kelland and Ergun each suggest the instantly claimed process of exposing a mixture of particles to microwave energy to heat the particles and then exposing the particles to a magnetic separation process. See claims 8-15 of Kelland; and cols. 2,3 and the claims of Ergun. The taught microwave energy would appear to meet the instantly claimed microwave/millimeter wave energy since microwave energy has a wavelength measured in millimeters and because Ergun teaches 10 GHz at col. 3, line 4 which is within that instantly disclosed on pp. 8-9 of the specification.

Claims 9-15 appear allowable over the cited prior art of record none of which teaches or suggests the instantly claimed combination of process steps.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 8AM-6PM but is on increased flexitime sch.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Steven Bos

Primary Examiner

Art Unit 1754

sjb